딥러닝기초 -04-

분류 문제

키-몸무게 회귀 분석

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import tensorflow as tf

모델 학습 model.fit(height, weight, epochs = 10)

붓꽃 분류

Iris Dataset (붓꽃 분류)

https://archive.ics.uci.edu/ml/datasets/iris



Center for Machine Learning and Intelligent Systems

Iris Data Set

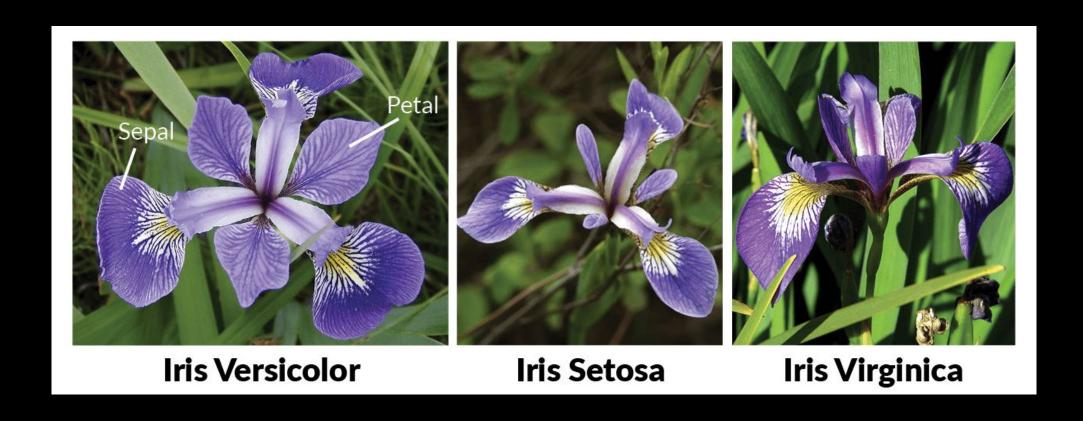
Download: Data Folder, Data Set Description

Abstract: Famous database; from Fisher, 1936



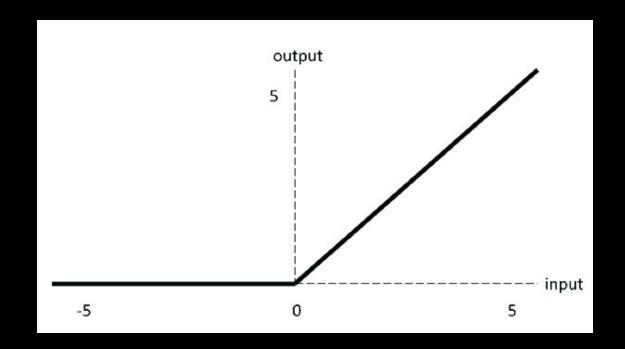
Data Set Characteristics:	Multivariate	Number of Instances:	150	Area:	Life
Attribute Characteristics:	Real	Number of Attributes:	4	Date Donated	1988-07-01
Associated Tasks:	Classification	Missing Values?	No	Number of Web Hits:	4550840

Iris Dataset (붓꽃 분류)



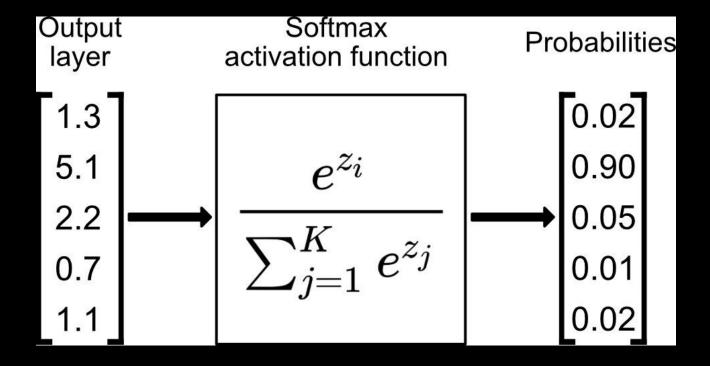
Activation Function: Relu (Rectified Linear Unit)

linear function that will output the input directly if it is positive, otherwise, it will output zero



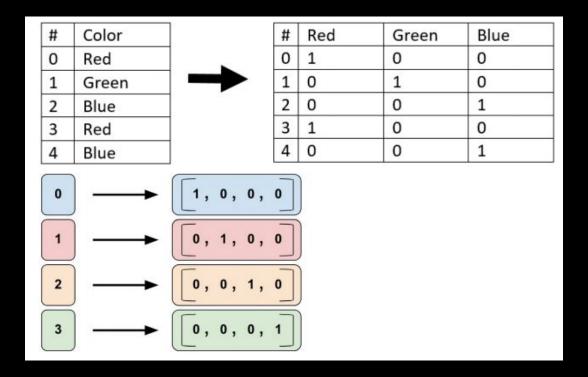
Activation Function: Softmax

Used as the activation function in the output layer for multi-class classification



One Hot Encoding

Produces a vector with length equal to the number of categories in the data set. If a data point belongs to the *i*th category then components of this vector are assigned the value 0 except for the *i*th component, which is assigned a value of 1.



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